# *Web Programming I (420-H10-HR)*

# *Assignment 1 – Web Site Creation*

Date assigned Monday, September 13, 2021

Date due: **Monday, September 27, 2020**

**Learning Objectives**

Upon successful completion of this assignment, the student will be able to:

* Develop a design plan for a web site
* Select a colour scheme for a web site
* Design the home page for a web site
* Set up the navigation and template for a web site
* Create an external style sheet for a web site

To do:

1. Create a folder named YourInitialYourLastName\_H10A01\_Web in the Assignments folder for this course on your H drive (like mcleroux\_H10A01\_Web).
2. Your job is to determine a website that you would like to develop based on the criteria listed below. The topic of the site is up to you, but must be approved by me. The site needs to sell some sort of service or product. Some ideas for sites:
3. A website for a coffee house, restaurant, etc
4. A website for a resort or camp
5. A website for a yoga studio or similar
6. A website for a veterinarian
7. A website about a hobby
8. A sales website (cars, bikes, sports equipment, books, etc)
9. A website about a sports team (selling merch or tickets)
10. A website about a musical/theatre group
11. A website for a service industry like a doctor’s or lawyer’s office
12. When coming up with your idea you must determine what kinds of pages your site will have. You MUST have between 5 and 9 pages besides the home page. The pages will have to include things as applicable such as:
13. A home page describing the site
14. A list of products/offerings/services
15. Hours of operation for the business/service/whatever
16. Rates/costs for the various things
17. Links page to related websites
18. An inquiries page containing a form that the visitor can fill in
19. A contact page
20. Photos of people (these will be your classmates)
21. A video which you will complete in a later lab
22. Other pages potentially
23. The website must have at least of one of each of the following by the final assignment (many of these you do not know at this point but will by the end of the term).
24. A header area, navigation area, content area and footer area
25. A table to show information
26. Images
27. Links
28. Images “floating” to an area on a page
29. A form to allow information to be entered
30. Photos (taken by you of your classmates in a later lab)
31. Video (taken by you and featuring your classmates)
32. A responsive design that adjusts to being viewed on a phone or tablet

**For this assignment you must complete the following:**

1. Come up with the idea for your site. It cannot be a real company. Create a document with the following:
2. The document should have a title page with the title of the document (Design Plan for xxxxxxx x xxx xx x x xx Web Site), your name, and the date.
3. A name for the company and a description of what they do.
4. A section (paragraph) that describes what the website is for.
5. A list of pages that the website will have with a brief description of each.
6. The intended or targeted audience for the site…who will want to look at this site, what is their age range, technical ability, etc. If you want, talk about the characteristics of a few specific types of users.
7. Design or find an appropriate non-copyrighted image that can be a logo for the company and include it in the document.
8. Determine a starting colour palette of 3-5 colours appropriate for the company and the intended audience. These are the colours you will use on your website. Include the colours in the document such that I can see the colours.
9. Create the banner of the web site. This can be text or graphic or a combination. You must use your colour palette for the colours. Determine what CSS properties you will use for the banner. Remember a banner would include the company name, the logo and maybe other information. The banner should not be too wide, but must contain all the proper information. You can use background-images to create the banner.
10. Create a rough sketch of the layout of your **MOBILE** page. This can be done freehand and scanned or you can use a tool of some sort. This image MUST be copied into the document. The image should include:
11. Navigation indicating what pages you are going to include.
12. Something showing relative font and button size
13. Something showing the content pages that will be included. This MUST be a subset of the entire site. You will have a maximum of 4 pages on your mobile site.
14. Create a second image layout for the desktop site. The desktop site must look different than the mobile site but should have the same feel and use the same colour scheme. The desktop site will contain all the pages for your site while the mobile site will not (this is a requirement).
15. A banner which contains the logo, company name and a navigation bar with links to commonly used pages
16. A navigation bar (left, top, right or bottom – the design is yours), including links to the pages (which will be developed later)
17. Text navigation to all the pages, centered at the bottom.
18. If you plan on using a background image, describe it or “rough it in”
19. If you plan on having animation on your home page, indicate where that will be
20. Set up the site using VS Code. All the pages MUST be HTML5 compatible.
21. Create a folder structure for the site as follows (note you will be adding others):

* **styles** folder to hold the style sheet(s)
* **images** folder to hold the images for the web site
* **media** folder to hold any multimedia for the site

1. Create a new external style sheet named site.css in the styles folder for use in all the pages in your Web site. The style sheet will contain all the styles for your site including all ids, classes, tags. For now, you must include at least 5 styles (but may have more). The styles must be based on the look and feel (colour scheme, navigation, etc.) you design. This is not a complete list. You will need to add CSS as you learn more and as we continue working on the site. Do **not** have any embedded or inline styles in the page. Some tags you might want to consider including styles for are:

* html (to reset different things)
* body (including any background images, etc),
* Header tags (h1, h2, etc),
* Separate classes/ids for each div that is identified (header, nav, footer, body),
* Font-family, style, size for various areas on your site,
* text navigation at the bottom, in smaller font.

Include any additional styles you think you need. You must **not** use the built-in style sheets or ones that you can download from the web, come up with one of your own.

1. Set up the home page and name the page index.html and attach the stylesheet site.css that you created in the previous step. No content is required other than the banner (including the logo) and navigation as designed above. If you wish you can include some lorem ipsum text (<http://www.lipsum.com/>). If you do, remember to keep it about the same length as you would have information on the home page.

NOTES:

1. Confirm that your page is okay with me before getting going. If the idea is inappropriate, then you will waste a lot of time.
2. The remaining assignments build off each other. If you do not complete one of them, it will be hard to get caught up, so stay on top of things.
3. Do NOT set up any other pages except the home page. THIS IS A REQUIREMENT.
4. Do NOT set up the mobile pages. THIS IS A REQUIREMENT.
5. The document should only be 3-5 pages long including the images.
6. These design elements are not cast in stone and may change slightly, but they should not just be thrown together to satisfy the assignment. Wholesale changes will ONLY be permitted in extreme cases.
7. The best place to start is to check similar types of businesses to see what they include on their sites (it would be my first move).

**To submit**

Zip the folder YourInitialYourLastName\_H10A01\_Web (example: mcleroux\_H10A01\_web) and copy it to the Moodle page for the course. The zip file contains:

* The first design document for the site.
* All the files in the web site